Notice of Allowability	Application No.	Applicant(s)		
	10/705,984	ITO ET AL.		
	Examiner	Art Unit		
	Fazli Erdem	2826		
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. This communication is responsive to 2/23/05.				
2. The allowed claim(s) is/are <u>2-35,38-55,57-65,103 and 104.</u>				
3. ☑ The drawings filed on 13 November 2003 are accepted by the Examiner.				
4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 				
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.				
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🗖 Notice of Informati	Patent Application (PTC	152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summar	ormal Patent Application (PTO-152) mmary (PTO-413),		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da			
Paper No./Mail Date <u>12/29</u>				
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		Statement of Reasons for Allowance		
	· <u> </u>	J		

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DETAILED ACTION

Allowable Subject Matter

1. Claims 2-35, 38-55, 57-65, 103 and 104 allowed.

2. The following is an examiner's statement of reasons for allowance: Prior art failed to establish a semiconductor device comprising a lower-hydrogen barrier film, one or more capacitors each formed on the lower hydrogen-barrier film and including a lower electrode, a capacitive insulating film and an upper electrode, a first interlayer dielectric film formed to cover the capacitor and an upper hydrogen barrier film covering the top and lateral portions of the capacitor, where an opening which exposes the lower hydrogen-barrier film where the lower hydrogen barrier film is located around the capacitor and which is tapered and flares upward is formed in the first interlayer dielectric film and the upper hydrogen barrier film is formed along the lateral and bottom faces of the opening and is in contact with the lower hydrogen barrier film in the opening.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the

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organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

FE

May 12, 2005